

Resource Summary Report

Generated by [RRID](#) on Aug 3, 2026

B6.129S7-*Chrna5*^{tm1Mdb} *Chrn4*^{tm1Mdb}/Mmmh

RRID:MMRRC_000442-MU

Type: Organism

Proper Citation

RRID:MMRRC_000442-MU

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=442

Proper Citation: RRID:MMRRC_000442-MU

Description: Mus musculus with name B6.129S7-*Chrna5*^{tm1Mdb} *Chrn4*^{tm1Mdb}/Mmmh from MMRRC.

Species: Mus musculus

Notes: Research areas: Cardiovascular, Neurobiology, Research Tools; Mutation Type: Targeted Mutation ; Collection:

Phenotype: delayed ear emergence [MP:0000054]| delayed hair appearance [MP:0000422]| abnormal urinary bladder morphology [MP:0000538]| distended urinary bladder [MP:0000539]| abnormal urinary bladder urothelium morphology [MP:0000540]| postnatal growth retardation [MP:0001732]| increased susceptibility to bacterial infection [MP:0002412]| mydriasis [MP:0002546]| decreased susceptibility to pharmacologically induced seizures [MP:0002887]| urinary incontinence [MP:0003280]| intestinal hypoperistalsis [MP:0003290]| abnormal single cell response [MP:0003463]| eyelids fail to open [MP:0005176]| narrow eye opening [MP:0005287]| impaired pupillary reflex [MP:0006243]| abnormal autonomic nervous system physiology [MP:0006276]| urinary bladder inflammation [MP:0009646]| abnormal urinary bladder physiology [MP:0010386]| postnatal lethality [MP:0011085]| complete penetrance [MP:0011625]| decreased susceptibility to pharmacologically induced seizures [MP:0002887]

Affected Gene: |*Chrn4*||*Chrna5*

Catalog Number: 000442-MU

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:14996991](#)

Alternate IDs: MMRRC_442-MU, MMRRC_000442, MMRRC_442

Organism Name: B6.129S7-*Chrna5*^{tm1Mdb} *Chrnb4*^{tm1Mdb}/Mmmh

Record Creation Time: 20230308T054752+0000

Record Last Update: 20260801T123206+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S7-*Chrna5*^{tm1Mdb} *Chrnb4*^{tm1Mdb}/Mmmh.

No alerts have been found for B6.129S7-*Chrna5*^{tm1Mdb} *Chrnb4*^{tm1Mdb}/Mmmh.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Tsuzuki A, et al. (2024) Abundant extrasynaptic expression of $\alpha 4$ -containing nicotinic acetylcholine receptors in the medial habenula-interpeduncular nucleus pathway in mice. Scientific reports, 14(1), 14193.